

0321.66867



JC03 Rec'd PCT/PTO 1 4 NOV 2005 PCT #5

PATENT APPLICATION

UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application of: )  
Applicant(s): David R. Smith et al. )  
Serial No.: 10/525,191 )  
Filed: August 29, 2002 )  
For: INDEFINITE MATERIALS )  
Art Unit: 2918 )

I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

11-10-05  
Date

Attorney for Applicant(s)  
Registration No. 40,607

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This IDS is submitted under 37 C.F.R. §1.97(b) within either of the following time periods, whichever occurs last:

- (a) within three months of either the filing date of the national application or the date of entry into the national stage; or
- (b) before the mailing date of first office action on the merits (i.e., not including actions such as restriction requirements).

Applicant(s) submit herewith Form PTO-1449 (Information Disclosure Citation) together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. Applicant(s) respectfully submit that the citation of any reference on Form PTO-1449 does not constitute an admission that the reference qualifies as prior art.

It is requested that the information disclosed on the enclosed Form PTO-1449 be made of record in this application.

The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R. §§1.16-1.17, or to credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

300 South Wacker Drive – Suite 2500  
Chicago, Illinois 60606  
Telephone: (312) 360-0080  
Facsimile: (312) 360-9315  
Customer Number 24978  
P:\DOCS\0321\66867\902365.DOC

GREER, BURNS & CRAIN, LTD.

By:   
Thomas R. Fitzsimons  
Registration No. 40,607

Form PTO-1449 U.S. Department of Commerce  
(Rev. 8-88) Patent and Trademark Office

Attorney Docket No.: 0321.66867

Serial No.: 10/525,191

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Applicant: David R. Smith et al.

Filing Date: August 29, 2002

Group: Not yet assigned

## U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	3,934,566	01/27/76	Ward	123	119 E	08/12/74
	5,635,453	06/03/97	Pique et al.	505	239	12/23/94
	6,034,638	03/07/00	Thiel et al.	343	702	05/20/94
	6,097,271	08/01/00	Kozakoff	333	204	04/02/97
	6,117,517	09/12/00	Diaz et al.	428	102	05/19/98
	2003/0002045	01/02/03	Nemat-Nasser et al.	356	445	05/22/02
	6,791,432	09/14/04	Smith et al.	333	99	03/16/01

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	V.G. Veselago, "The Electrodynamics of Substances with Simultaneously Negative Values of $\epsilon$ and $\mu$ ", January-February 1968, Vol. 10, No. 4, page 509-514.
	R.N. Bracewell, <u>Analogues of an Ionized Medium</u> . <i>Wireless Engineer</i> , pp.320-326, December, 1954.
	Walter Rotman, <u>Plasma Simulation by Artificial Dielectrics and Parallel-Plate Media</u> . <i>PGAP</i> , pp.82-95, October, 1961.
	D.R. Smith, R. Dalichaouch, N. Kroll, S. Schultz, P.M. McCall, and S.L. Platzman; <u>Photonic band Structure and Defects in One and Two Dimensions</u> . <i>Journal of the Optical Society of America B</i> , 10(2): 314-321, 1993.
	J.B. Pendry, A.J. Holden, W.J. Stewart, and I. Youngs; <u>Extremely Low Frequency Plasmons in Metallic Mesostructures</u> . <i>Physical Review Letters</i> , 76(25): 4773-4776, 1996.
	W. Bruns, <u>GdfidL: A Finite Difference Program for Arbitrarily Small Perturbations in Rectangular Geometries</u> . <i>IEEE Transactions on Magnetism</i> , 32(3): 1453-1456, 1996.
	J.B. Pendry, A.J. Holden, D.J. Robbins, and W.J. Stewart; <u>Low Frequency Plasmons in Thin-Wire Structure</u> . <i>J. Phys.: Condens. Matter</i> , 10: 4785-4809, 1998.
	D.R. Smith, D.C. Vier, W. Padilla, S.C. Nemat-Nasser, and S. Schultz; <u>Loop-Wire Medium For Investigating Plasmons at Microwaves Frequencies</u> . <i>Applied Physics Letters</i> , 75(10): 1425-1427, 1999.
	J.B. Pendry, A.J. Holden, D.J. Robbins, and W.J. Stewart; <u>Magnetism From Conductors And Enhanced Nonlinear Phenomena</u> . <i>IEEE Transactions on Microwave Theory and Techniques</i> , 47(11): 2075-2084, 1999.
	D.R. Smith, W.J. Padilla, D.C. Vier, S.C. Nemat-Nasser, and S. Schultz; <u>Composite Medium With Simultaneously Negative Permeability and Permittivity</u> . <i>Physical Review Letters</i> , 84(18): 4184-4187, 2000.

Examiner

Date Considered

\*Examiner:

Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.